

LOGICALLY ORDERED ARRAYS OF COMPOUNDS
AND METHODS OF MAKING AND USING THE SAME

ABSTRACT

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A method for constructing an array of synthetic
molecular constructs, by forming a plurality of molecular
constructs having a scaffold backbone of a chemical molecule
comprising a linear, branched or cyclic organic compound
10 having at least atoms of carbon, nitrogen, sulfur,
phosphorus, or combinations thereof, and at least one
location on the molecule capable of undergoing reaction with
other molecules for attachment of at least one structural
diversity element; laying out an array possessing a logical
15 ordering of sub-arrays of the molecular constructs; providing
each sub-array with molecular constructs having the scaffold
backbone and at least one structural diversity element which
is different from the others; and relating each sub-array
within the array to all other sub arrays by the difference in
20 the structural diversity elements.

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